In the Claims

1. (currently amended) A process for the preparation of a polyolefin nanocomposite which comprises melt mixing a mixture of a) a polyolefin, b) a filler and c) a non-ionic surfactant.

wherein the filler is a natural or synthetic phyllosilicate or a mixture of such phyllosilicates or a layered hydroxycarbonate and where the filler is not an organically modified clay and

wherein the non-ionic surfactant is a sorbitan ester, a dimethylsiloxane-ethylene oxide-block copolymer or a poly(methyl methacrylate)-block-poly(oxyethylene) copolymer.

- 2. (canceled)
- **3.** (original) A process according to claim 1, wherein the filler is a layered silicate clay or a layered hydroxycarbonate.
- **4. (original)** A process according to claim **1**, wherein the filler is a montmorillonite, bentonite, beidellite, mica, hectorite, saponite, nontronite, sauconite, vermiculite, ledikite, magadite, kenyaite, stevensite, volkonskoite, hydrotalcite or a mixture thereof.
- 5. (canceled)
- 6. (canceled)
- 7. (canceled)

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- **8.** (currently amended) A process according to claim [[7]]1, wherein the sorbitan ester is an ester of sorbitol or an ethoxylated sorbitan with a C₁₂-C₂₅carboxylic acid.
- 9. (original) A process according to claim 1, wherein the polyolefin is polyethylene or polypropylene or copolymers thereof.
- **10. (original)** A process according to claim **1**, wherein the filler is present in an amount of from 1 to 15 %, based on the weight of the polyolefin.
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- **11.** (original) A process according to claim 1, wherein the non-ionic surfactant is present in an amount of from 0.1 to 7.5 %, based on the weight of the polyolefin.
- **12.** (original) A process according to claim 1, wherein the melt mixing occurs between 120 and 290°C.
- 13. (currently amended) A process according to claim 1[[,]] comprising melt mixing in addition, besides components (a), (b), and-(c)[[,]] and further additives.
- **14.** (currently amended) A process according to claim **13**, comprising as wherein the further additives are selected from the group consisting of phenolic antioxidants, light-stabilizers, processing stabilizers, pigments, dyes, plasticizers, compatibilizers, toughening agents, thixotropic agents, levelling assistants, acid scavengers and/or metal passivators.
- **15. (original)** A process according to claim **1**, wherein the mixture of the filler and the non-ionic surfactant, and where applicable further additives, are added to the polyolefin in the form of a master batch which contains the mixture in a concentration of from 2.5 to 40% by weight.

- **16.** (original) A polyolefin nanocomposite obtained by a process according to claim **1**.
- 17. (currently amended) A nanocomposite comprising a melt mixture of
 - a) a polyolefin which is susceptible to oxidative, thermal or light-induced degradation,
 - b) a filler,
 - c) a non-ionic surfactant[[,]] and
- d) an additive selected from the group consisting of phenolic antioxidants, light-stabilizers, processing stabilizers, pigments, dyes, plasticizers, compatibilizers, toughening agents, thixotropic agents, levelling assistants, acid scavengers and metal passivators and mixtures thereof,

wherein the filler is a natural or synthetic phyllosilicate or a mixture of such phyllosilicates or a layered hydroxycarbonate and where the filler is not an organically modified clay and

wherein the non-ionic surfactant is a sorbitan ester, a dimethylsiloxane-ethylene oxide-block copolymer or a poly(methyl methacrylate)-block-poly(oxyethylene) copolymer.

18. (currently amended) An article <u>comprising afrom</u> polyolefin nanocomposite prepared according to claim **1**.

19. (canceled)

20. (new) A process according to claim 13, wherein the further additives comprise 0.01 to 10% by weight of a nucleating agent.

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